

EGU 2022 – BG3.15: Greenhouse gas (GHG) fluxes in two drained Northern peatlands inferred from eddy covariance and automatic light-dark chambers

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UiO : University of Oslo



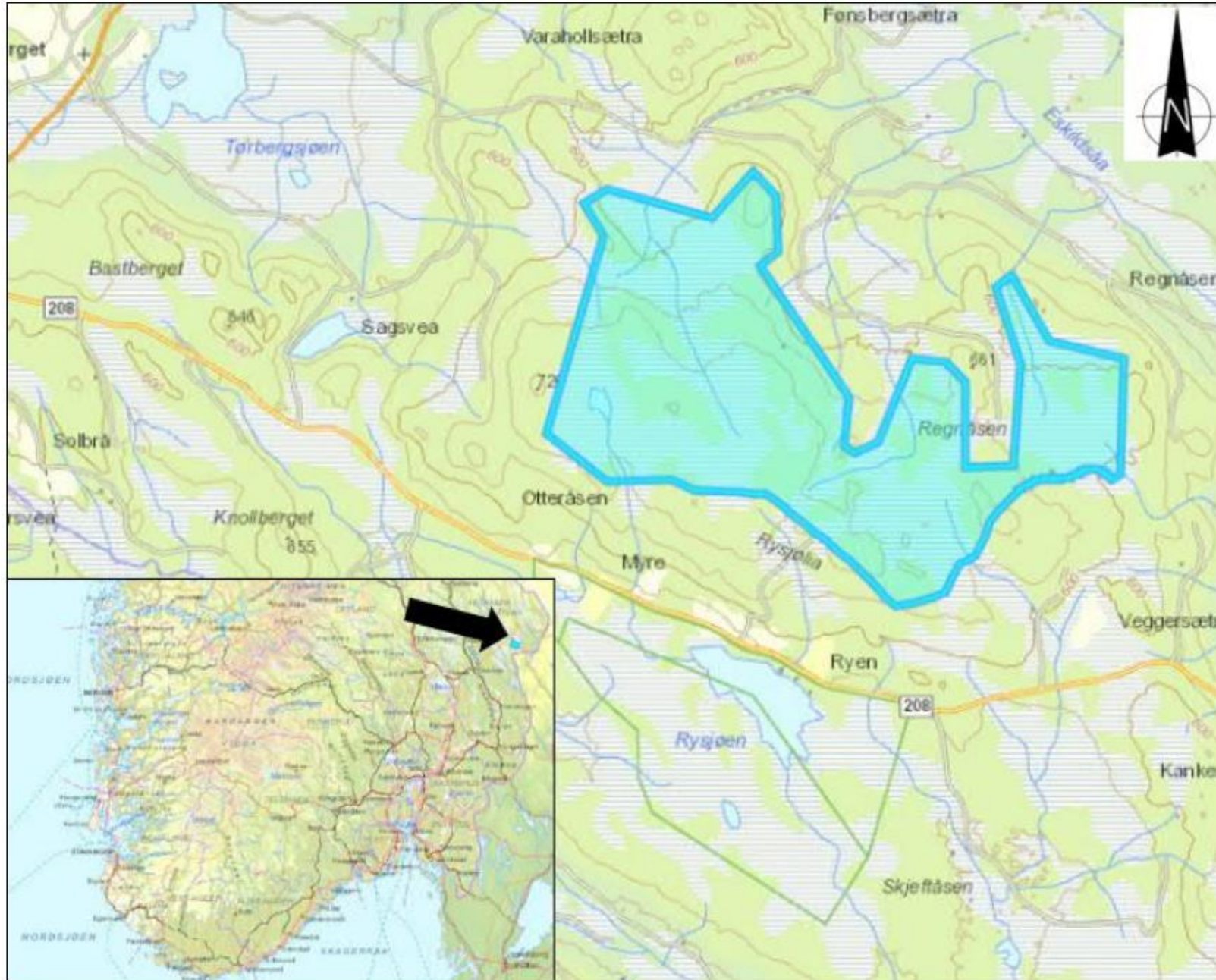
Denmark
Technical
University

UNIVERSITY OF
COPENHAGEN



Research site – Regnåsen, South of Trysil, Norway

Google Earth:



NORTH



Project major aim:
Observe changes in
GHG fluxes after
restoration of
hydrology

Step 1:
Pre-restoration
measurements
(2019 – 2020) at two
sites – NORTH and
SOUTH.

Step 2:
SOUTH site was
restored in 2021 –

Step 3:
Follow changes in
GHG fluxes in the
following years

SOUTH



SOUTH

Step 2:

20 Sep – 22 Oct '21
– the SOUTH site
hydrology was
restored...



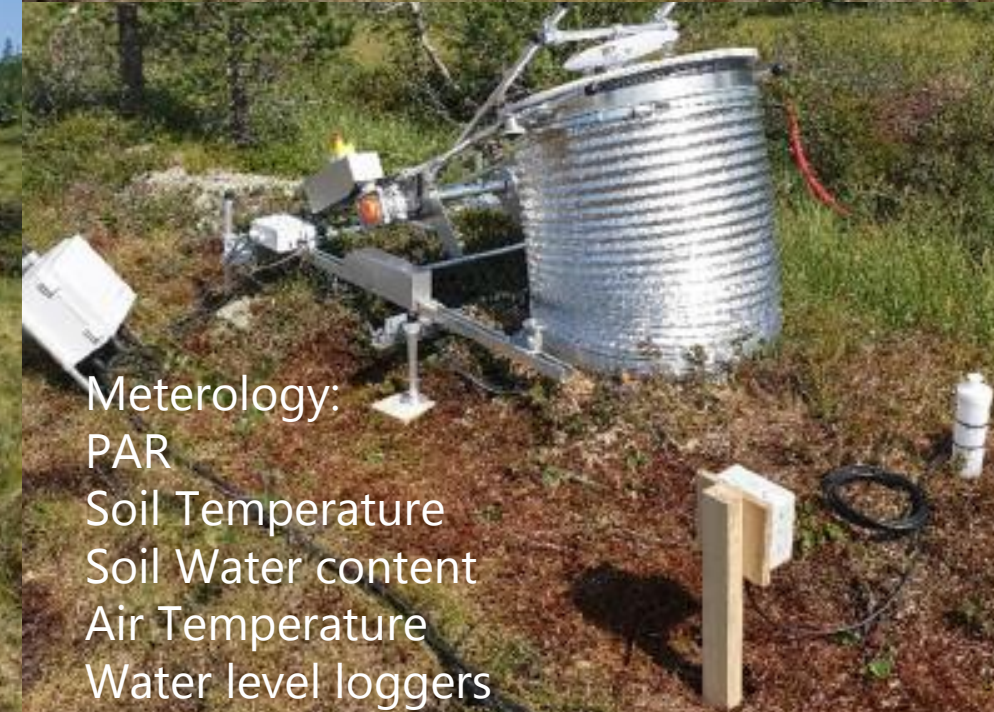
Steps 1 & 3: GHGs and meteorology

Meteorology:
Rain
PAR & Global Radiation
Soil heat flux
Soil Temperature
Soil Water content
Air Temperature
Air Humidity

At each of the two sites:

1x LI-COR eddy flux system
(CO₂, H₂O, CH₄)

5x ECO₂flux light/dark
automatic chambers
(CO₂, H₂O, CH₄, N₂O)



Meteorology:
PAR
Soil Temperature
Soil Water content
Air Temperature
Water level loggers

We seek:

- Collaborations with similar experiments with rewetting and measurements of GHG with eddy flux and chamber methods
- Collaborations with researchers interested in other important ecosystem investigating components (plant community changes, soil microbial changes, etc.)

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Thank you!

